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Design of self-checking software

SS Yau, RC Cheung - ACM SIGPLAN Notices, 1975 - portal.acm.org

... (Before we can really guarantee the **integrity** of a program, we have to prove its correctness which cannot be achieved for large programs in the present state of the art, Self-checking software is primarily used to verify the correct operation of the system during **execution** time. ...

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Tamper resistant **software**: An implementation

D Aucsmith - Information Hiding, 1996 - Springer

... first process some part of a digital signature, then one part of some additional function such as **checking** to see ... If desired, the IVK could verify the **integrity** of any other **software** component, in addition to the program in which ... Thus, the vulnerability rests on IVK's correct **execution**. ...

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Control-flow **integrity**[psu.edu \[PDF\]](#)

M Abadi, M Budiu, U Erlingsson, J ... - Proceedings of the 12th ..., 2005 - portal.acm.org

... The CFG in question can be defined by analysis—source- code analysis, binary analysis, or **execution** profiling. ... At the **software** level, several existing mitigation techniques constrain control flow in some way, for example by **checking** stack **integrity** and validating function ...

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Oblivious hashing: A stealthy **software integrity** verification primitive

Y Chen, R Venkatesan, M Cary, R Pang, S Sinha, M ... - Information Hiding, 2002 - Springer

... Oblivious Hashing: A Stealthy **Software Integrity** Verification Primitive 401 ... and thus difficult to separate without non-trivial effort to run and observe the program's **execution** repeatedly ... At the minimum, there must be stealthy ways for **checking** and acting upon the **execution** hashes ...

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Towards the issues in architectural support for protection of **software execution**[psu.edu \[PDF\]](#)

W Shi, HHS Lee, C Lu, M Ghosh - ACM SIGARCH Computer ..., 2005 - portal.acm.org

... As Yang et al. [15] indicates, block cipher based systems can incur substantial performance

penalty. Systems using encryption schemes similar to one-time pad (OTP) and relaxed **integrity check** [12, 15] are proposed because they support faster **software execution**. ...

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[A parallelized way to provide data encryption and integrity checking on a processor ...](#)

[psu.edu](#) [PDF]

R Elbaz, L Torres, G Sassatelli, P Guillemin, ... - Proceedings of the ..., 2006 - portal.acm.org

... **integrity** of data stored in off-chip memories of embedded computing systems. Data encryption and **integrity checking** are mandatory to obtain a private and authenticated tamper resistant (PTR) environment for **software execution**. ...

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[HTML] [Securing software by enforcing data-flow integrity](#)

[usenix.org](#) [HTML]

M Castro, M Costa, T Harris - ... of the 7th USENIX Symposium on ..., 2006 - usenix.org

... The overhead of **software** implementations of taint **checking** [31 , 16] is also significantly higher, for example, TaintCheck [31] ran bzip2 37.2 times slower than without ... We compare the peak physical memory usage during **execution**, as reported by the operating system. ...

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[CITATION] Hardware-and **software**-fault tolerance: Definition and analysis of ...

JC Laprie, J Ariat, C Béounes, ... - FTCS 17: digest ..., 1987 - Computer Society Press of IEEE

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[psu.edu](#) [PDF]

JC Laprie, J Ariat, C Beounes, K Kanoun, T LAAS- ... - Computer, 1990

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[Control-flow integrity principles, implementations, and applications](#)

[psu.edu](#) [PDF]

M Abadi, M Budiu, U Erlingsson, J ... - ACM Transactions on ..., 2009 - portal.acm.org

... puter hardware has long been able to prevent **execution** of data memory, and the latest x86 processors support this feature. At the **software** level, several existing mitigation techniques constrain control flow in some way, for exam- ple, by **checking** stack **integrity** and validating ...

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